

FIG.1

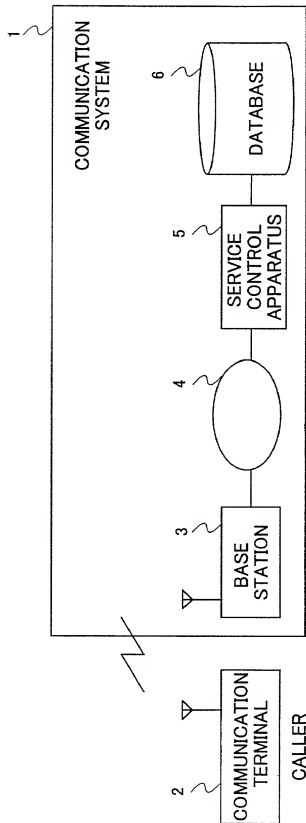


FIG.2

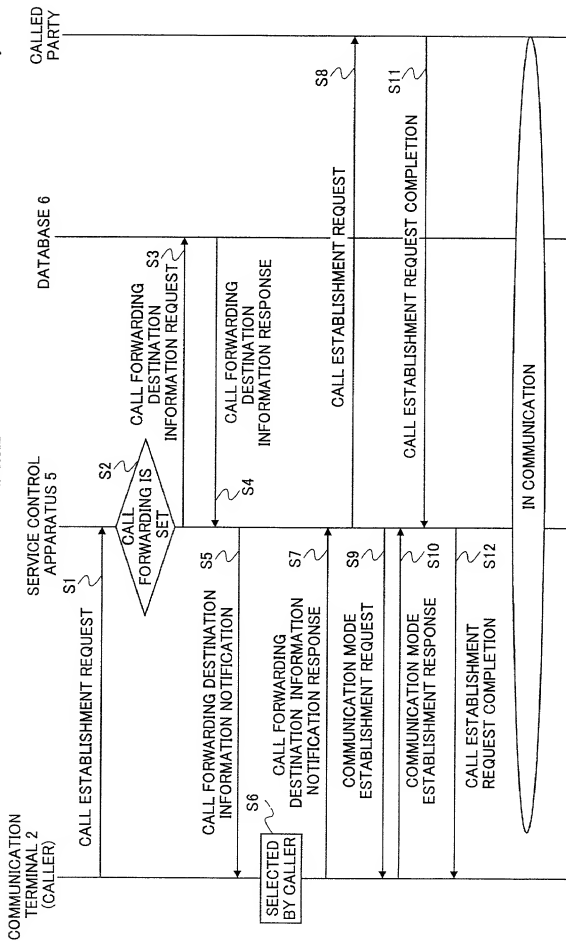
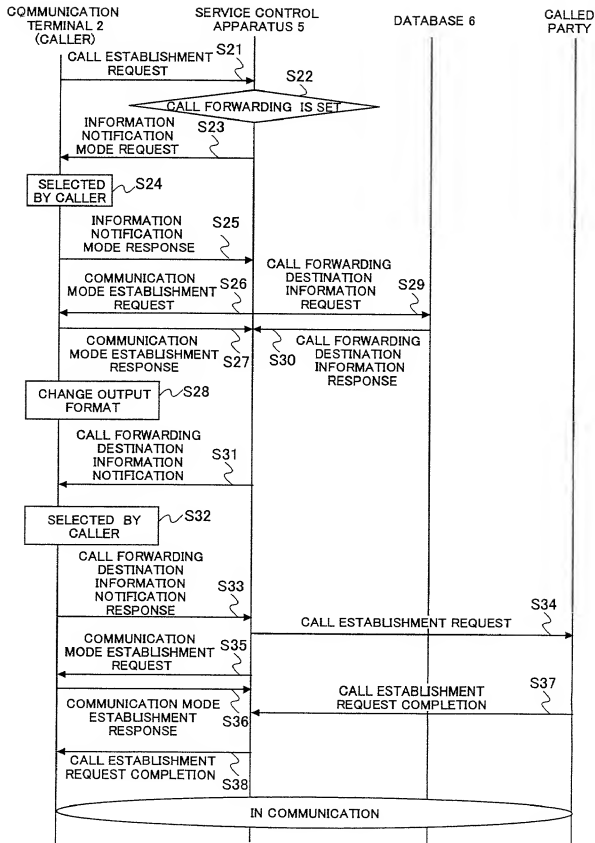


FIG.3

SUBSCRIBER NUMBER: 090-XXX-XXXX		INCOMING CALL FORWARDING IS SET	
	SERVICE MODES	FORWARDING DESTINATION	STATE
1	VOICE	0468-YY-YYYY	ON
2	VOICE	0468-YY-ZZZZ	ON
3	TV PHONE	090-AAAA-AAAA	ON
4	E-MAIL	<u>Abcd@xxx.yyy.com</u>	ON
5	Fax	0468-ZZ-YYYY	OFF
6	PHONE ANSWARING	PHONE ANSWERING CENTER	ON
7	CHAT (CHARACTER)	DESTINATION NW+IP ADDRESS	OFF

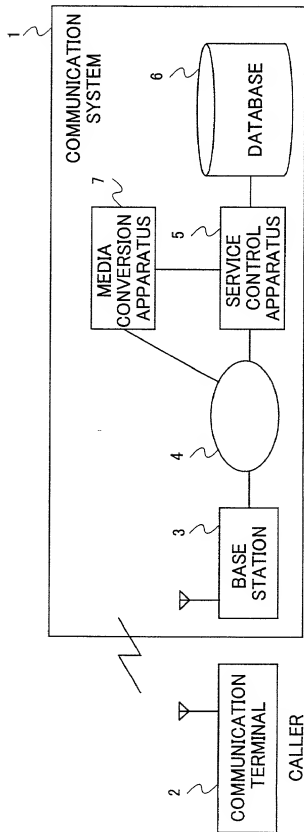
0987550-11544

FIG.4



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FIG.5



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sequenceDiagram
    participant C2 as COMMUNICATION TERMINAL 2 (CALLER)
    participant SCA5 as SERVICE CONTROL APPARATUS 5
    participant DB6 as DATABASE 6
    participant MCA as MEDIA CONVERSION APPARATUS
    participant CP as CALLED PARTY

    C2->>SCA5: CALL ESTABLISHMENT REQUEST S41
    SCA5->>S42: CALL FORWARDING IS SET
    SCA5->>DB6: CALL FORWARDING DESTINATION INFORMATION REQUEST S43
    DB6->>SCA5: CALL FORWARDING DESTINATION INFORMATION RESPONSE S44
    SCA5->>C2: CALL FORWARDING DESTINATION INFORMATION NOTIFICATION S45
    Note over C2: SELECTED BY CALLER S46
    C2->>SCA5: CALL FORWARDING DESTINATION INFORMATION NOTIFICATION RESPONSE S47
    SCA5->>DB6: ACTIVATION REQUEST S48
    DB6->>MCA: S49
    Note over MCA: ACTIVATE CONVERSION
    MCA->>SCA5: S50
    SCA5->>C2: CALL ESTABLISHMENT REQUEST COMPLETION S51
    Note over SCA5, DB6, MCA: IN COMMUNICATION
    Note over MCA: MEDIA CONVERSION
    Note over MCA: IN COMMUNICATION
  
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The diagram illustrates a call forwarding process involving four main entities: COMMUNICATION TERMINAL 2 (CALLER), SERVICE CONTROL APPARATUS 5, DATABASE 6, and MEDIA CONVERSION APPARATUS. The process begins with a CALL ESTABLISHMENT REQUEST (S41) from the caller to the service control apparatus. A decision point (S42) checks if CALL FORWARDING IS SET. If set, the service control apparatus sends a CALL FORWARDING DESTINATION INFORMATION REQUEST (S43) to the database. The database responds with a CALL FORWARDING DESTINATION INFORMATION RESPONSE (S44). The service control apparatus then sends a CALL FORWARDING DESTINATION INFORMATION NOTIFICATION (S45) back to the caller. A box labeled 'SELECTED BY CALLER' (S46) is shown on the caller's side. The caller then sends a CALL FORWARDING DESTINATION INFORMATION NOTIFICATION RESPONSE (S47) to the service control apparatus. The service control apparatus sends an ACTIVATION REQUEST (S48) to the database. The database sends a signal (S49) to the media conversion apparatus, which performs 'ACTIVATE CONVERSION'. The media conversion apparatus sends a signal (S50) back to the service control apparatus. Finally, the service control apparatus sends a CALL ESTABLISHMENT REQUEST COMPLETION (S51) to the caller. A large oval at the bottom indicates the state 'IN COMMUNICATION' for the service control apparatus, database, and media conversion apparatus, with a box labeled 'MEDIA CONVERSION' also present.